□□□□□□□□ -- □□□□□□□□□□□□

—— □□

□□□□

□□

□□□

□□□□□□□□□□□□□□□□□□□ talent pool □□

□□□□□□□□□□ talent pool □□□

□□

□□·□□□

□□□□□□□□□□□□□□□□□□□□□□□□

□□□□□□□□□□□□□□□□□□□ STEM □science, technology, engineering and mathematics□□

□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□

□□

□□

□□□□□□□□□□□□□□□□□□□□□□□□"□□□□□□"□□□

□□□□□□□□□□□□□□□□□

□□ Deepmind □□□ [1]□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□

AlphaGo Master □□□□□□□□□□□□□□□ AlphaGo Master□□□□□□□AlphaGo Master □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□

□□□□ AlphaGo Zero □□□□□□ AlphaGo Master □□□□□□ AlphaGo Zero □□□□□□□□□□□[2]□□□□□□□□□□AlphaGo Master □□□□□□□□□□□□ 16 □□□□□□□ AlphaGo Zero □□□□□□□□□□□□ 18 □□□□□□□ AlphaGo Zero □□□□ 14□16 □□□ 45 □□□□□□□□□□□□□□□□

1□□□□□□ Nature Magazime □□□□□□ AlphaGo □□□□□□□Deepmind □□□□ AlphaGo Zero □

AlphaGo Master □□□□□□□□□□□□□□□□□□□□□

2) □□□□□□□□□□□□□□□□□□□□□□□□□□□ AlphaGo Zero □□□□□□□□□□□□□□ local trap□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□AlphaGo Zero □□□□□□□□□□□ AlphaGo □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□

□□□□□ AlphaGo □□□□□□□□□ Turing Machine □ Deep-learning □□□□□□□□□ AlphaGo □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□Deepmind □□□□□□□□□□□□□□□□□□ AlphaGo Zero □ AlphaGo Master□□□□□□□□□□□□ AlphaGo Zero □ AlphaGo Zero □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□

□□□□□□□□□□□ Alan Turing□□ Geoffrey Hinton□□ Demis Hassabis□□□□□□□□□□□□□□□□□□□□□□□□□□□□□

Demis Hassabis □□ AlphaGo □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□ [3]□□□□□□□□□□□□□□□□□□□□□□ Geoffrey Hinton □□□□□□□□□□□□□□□

Turing Machine □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□ Turing Machine □□□□□□□□□□ Geoffrey Hinton □□□□□□□□□□□□□□□ Turing Machine □□□□□□□□□□□ Alan Turing □□□□□□□□□□□□□□□□□□□□□□□□□□□□

□□

□□□□□□□□□□□□□□□□□ Dialogue Concerning the Two Chief Word Systems [4]□□□□□□□□□□□□□□□□□□□□□□□□□□□

□□□□□□□□□□□□□□□ The Sceptical of Chemist□□

□□□□□□□□□□□□□□□ On the Origin of Species□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□

□□□ [5]□

□□

□□□

□□□

□□Leukotomy □ BRIAN Initiative

Leukotomy □□□□□□□□□□□□□□□□

1□□□□□□□□□□□□ personalities □ mental diseases□□□□ personalities □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□ BRAIN Initiative project □□□□□□

2□□ Leukotomy □□□□□□□□□□□□□□□□ Leukotomy □□□□□□□□□□□□□□□□□□□□□□□ BRAIN Initiative □□□□□□□ AlphaGo □□□□□□□□□□□□□□□□□□□□

3□□□□□ personality □ intelligence □□□□□□□□□□□□□□□ Walter Freeman □□□□□□□□□□□□□□□

personality □ intelligence □□□ [6]□□□□□□□□□□□□

BRAIN Initiative project □□□□□□□□□□□□□□□□□□□□□□□□□□□ NIH □ BRAIN 2025 Report □□□ "there is general agreement that types can be defined provisionally by invariant and generally intrinsic properties"□□□□□ invariant □ agreement □□□□□□□□□□□□□□□□□□ insights□□□□□"envision an integrated, systematic census of neuronal and glial cell types"□□□□□□□□□ dynamic brain mapping □"Link brain activity to behavior"□ "Produce conceptual foundations for understanding the biological basis of mental processes"□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□ mental processes □ behavior□□□□□

BRAIN Initiative project □□□□□□□□□□□□□□□□□□□□□□□□□□ personality □ intelligence □□□□□□ □□□ brain mapping □□□□□ personality □ intelligence □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□ □□□□□□□□□□□hidden Assumptions□□□ □□□□

□□□ □ personality □ intelligence □□□□□□□□□□□□□□□□□□□□□□□

□□ BRAIN Initiative project □□□□□□□ brain mapping □□□□□□ mental diseases□□□□ personality □ intelligence□□□ personality □ intelligence □□□□□□□□□□□□□□□□□□□□□□□□□□ Leukotomy □□□□□□□

□□□□ Leukotomy □□□□□□□□□□□□□ AlphaGo □□ □□

□□□ personality □ intelligence□ □□□□□□ mental diseases □□□□□□□□□□□□□□□□

BRAIN Initiative □ brain mapping □□□□□□□□□□□□□□□□□□ human level intelligence □□□□□□ □□□□□□□□□□□□□□□□ personalities□intelligence □ mental diseases □□□□□□□□□BRAIN Initiative □ neurosciences □□□□□□□□□AlphaGo □□□□□□□□□□ generic human intelligence□ □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□ AlphaGo □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□ □□□□□□□□□□□□□□□ neurosciences □□□□ [7]□

□□□□

□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□ Technological Singularity □□□□□□□□□ BRAIN Initiative project □□□ Technological Singularity □ baseless □□□

□□ □□□□□□□□□□□□□□□□□□□

□□□AlphaGo Zero achieved superhuman performance□□□ Demis Hassabis □□ AlphaGo □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□ □□□

~~~~~~~~~~~

[1] □□□□ Cracking Go □□□□□□□□□□□□□□□□□□□□□□ Deep Blue □□□AlphaGo □□ AlphaGo □□□□□□□□□□□□□□□□□□□□

[2] □□ http://www.alphago-games.com/□AlphaGo Zero □ AlphaGo Zero □□□□□□□□□□□□□□□□□□□□□

[3] □□□AlphaGo □□□□□□□□□□□□□□□□□□□□□□□□AlphaGo □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□ AlphaGo □□□□□□□□□□ AlphaGo Zero □□□□□□□□□□□□□□□□□□□□□□□□□ AlphaGo Zero □□□□□□□□□□□

□□ AlphaGo □□ AlphaGo □□□□□□□□□

[4] Dialogue Concerning the Two Chief Word Systems □□□□□□□□□□ Socratic Method □□

□□□ AlphaGo □□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□

□□□

[5] BRAIN Initiative project □□□□□□□□□□□□□ □□**BRIAN Initiative**□

[6] □□□□□□□□□□□□□□ intelligence□Demis Hassabis □□□□□□□□□□□ AlphaGo □□□□□□□□□□□□□□□□□ intelligence □□□□□□□□□□□□□

[7] □□□ AlphaGo □□□□□□□□□□□□□□□□□